

DIGITAL SKILLS AND RESEARCH METHODS
BMSW4003

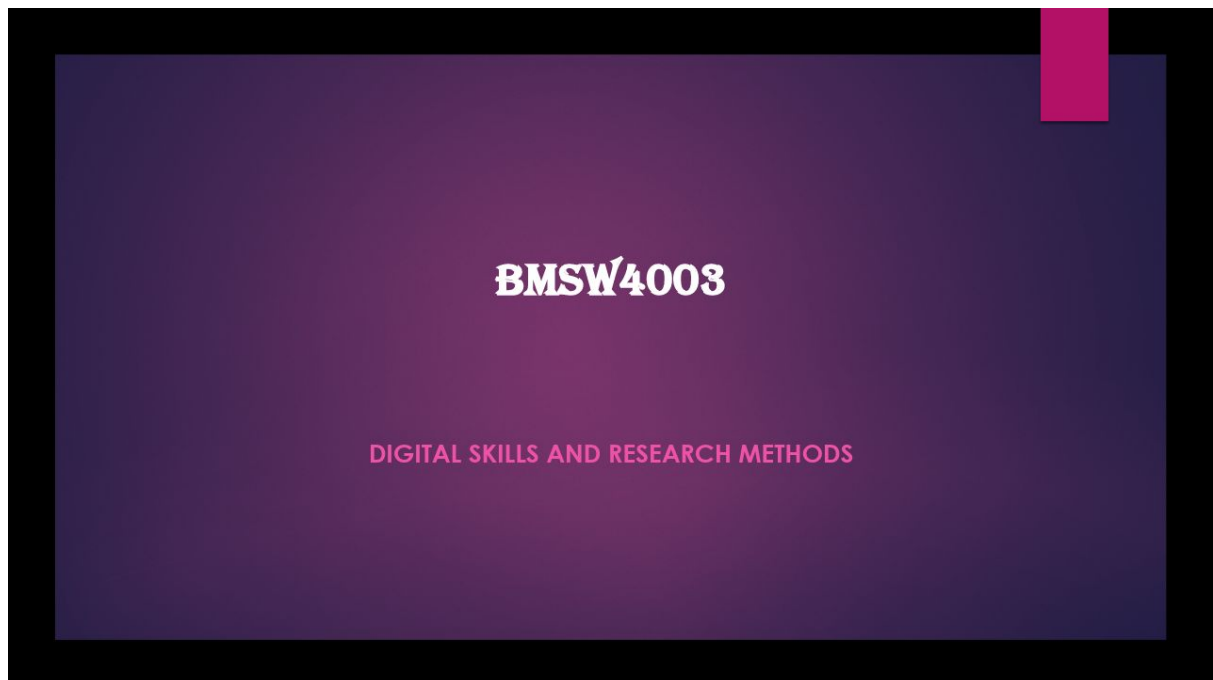
Academic report

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7th May 2020

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Slide 1



Slide 2

NATIONAL HEALTH SERVICE (NHS)

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1. Meriem Azil Fechtal	1917245	Background of the organization.
2. Elizabeth Owusu	1917244	Challenges before introducing Modern Technology.
3. Achiaa Boakye	1916597	Insights of Modern Technology introduced.
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6th May 2020

Slide 3

NATIONAL HEALTH SERVICE (NHS)

- ▶ Introduction
- ▶ Background of the organization
- ▶ Challenges before introducing Modern Technology
- ▶ Insights of Modern Thechnology introduced
- ▶ Impacts of Modern Thechnology
- ▶ Lessons drawn from the case study
- ▶ References

NATIONAL HEALTH SERVICE (NHS)

Introduction.

- ▶ The NHS covers the entire population.
- ▶ Free health services at the point of delivery.
- ▶ 1.2 Millions staff employed by the NHS.
- ▶ 1,257 hospitals across the UK.
- ▶ 170,548 hospital beds in the UK.
- ▶ Four separate systems (NHS England, NHS Scotland, NHS Wales and Health and social Care in Northern Ireland).
- ▶ Founded from National insurance contributions and general taxation.

Introduction

Since its dispatch in 1948, the NHS has developed to appear into the world's greatest freely supported wellness administration. It is moreover one in everything about greatest productive, most extreme populist and generally thorough. The NHS in Britain is the greatest a piece of the gadget by utilizing far, obliging a masses of 51m and utilizing extra than 1.3m individuals. In spite of the fact that speculation is provided midway with the guide of nation wide tax collection the NHS benefits in Britain, Scotland and Ribs are controlled independently.

The NHS incorporates a succession of freely subsidized medicinal services frameworks inside the UK. It comprises of the National Wellbeing Administrations (Britain), NHS Scotland, NHS Grains and Wellbeing and Social Consideration in Northern Ireland.

Scotland's NHS stays a different edge from the elective open wellness frameworks in the UK which can bring about disarray from victims when "cross-outskirt" or crisis care is included. Essential and optional considerations are coordinated in Scotland. Dissimilar to in Britain, NHS trusts do now not exist in Scotland.

Grains gets a square outfit from the UK focal specialists that is then administered among the stand-out offices, comprehensive of NHS Ridges. The first distinction for patients in Ridges is that solutions for tranquilize medications are loosened for everybody.

NATIONAL HEALTH SERVICE (NHS)

Background.

- ▶ Born in 4th July 1948.
- ▶ Launched by Minister of Health in Attlee's post-war government, Aneurin Bevan.
- ▶ Created at the Park Hospital in Manchester.
- ▶ Created by the National Health Service act 1946.
- ▶ It was the first health care system established in the world.
- ▶ Launched with a budget of £437 millions.

Background.

After the 1945 standard political race, Bevan become delegated clergyman of wellbeing, liable for sorting out the National Wellbeing Administration. On 5 July 1948, the administration took over obligation regarding every single clinical contribution and there was free forecast and solution for all.

The NHS Act arrived into sway on 5 July 1948. The Demonstration outfitted for the foundation of a total wellbeing bearer for Britain and Ridges. There transformed into isolated principles created for Scotland and Northern Ireland. The main Pastor of Wellbeing was Aneurin Bevan MP.

At the point when Aneurin Bevan, the Health secretary, opened Park Emergency clinic in Manchester 60 years back, it turned into the peak of a tremendously striking arrangement. For the essential time clinics, specialists, medical caretakers, drug specialists, opticians and dental specialists have been united underneath one umbrella office that changed into loosened for all to access at the factor of conveyance.

The significant standards had been clear: the wellbeing supplier may be accessible to all and financed totally from tax assessment, which guessed that each citizen added to it.

5 July 1948: the then Wellbeing Pastor Anuerin 'Nye' Bevan showed up to initiate the NHS by utilizing emblematically getting the keys from Lancashire Area Region. Attendants formed a 'guard of respect' outside the clinical establishment to meet him. The National Wellbeing Administration transformed into conceived and, from that day forward, the medicinal services of the country altered until the end of time.

NATIONAL HEALTH SERVICE (NHS)

Aims and Objectives

- ▶ Provide comprehensive service to everyone.
- ▶ Free access to NHS services.
- ▶ High standard of quality care and professionalism.

Scope/ Purposes.

- ▶ Health education England on Current and future workforce development
- ▶ Academic Health Science Network on Innovation
- ▶ National Information Board on the digital by default agenda

Aims and objectives.

- NHS' focus on the world is for it to continually upgrade care top of the line, assisting with making the most secure, most noteworthy charming wellbeing and care administration. Individuals merit persistently high incredible human services that is close to home, amazing and safe, that regards their nobility and this is carried with empathy.
- The NHS will improve the extraordinary of administrations and limit mistakes.
- The NHS will help and value its staff. Open financial plan for social insurance might be submitted exclusively to NHS patients. The NHS will work with others to make certain a consistent supplier for patients.

NHS Purpose.

- Initially the purpose of NHS to provide free comprehensible health care. The inspiration to offer a decent, powerful and solid human services to all transformed into at some point or another making its first speculative strides.
- The approach of the NHS in 1948 diverted into the produced using long stretches of troublesome work and inspiration from different figures who felt the contemporary social insurance contraption got lacking and should have been upset.



NATIONAL HEALTH SERVICE (NHS)

Mission

- ▶ Improve Health
- ▶ Promote excellence and Professionalism
- ▶ Service improvements and Innovation

Current status and services

- ▶ Primary care
- ▶ Secondary care

NHS endeavors to improve wellness and wellbeing and individuals' accounts of the NHS. NHS expense greatness and demonstrable skill any place we discover it – in the typical issues that improve individuals' lives as a terrible parcel as in logical practice, transporter upgrades and development.

The NHS is isolated into independent segments. The first is essential consideration which is as a matter of first importance the principal factor of contact for most patients. The contributions are conveyed by utilizing a huge scope of impartial wellness care specialists including GPs, dental specialists, drug specialist's optometrists and podiatrists.

Auxiliary consideration can be either non-obligatory consideration or crisis care. Elective consideration is regularly proficient clinical consideration or medical procedure, normally following a referral from an essential human services master, for example, a GP. There are likewise tertiary consideration administrations which give master care, together with medical clinics for sick youngsters.

Task 2

Elizabeth Owusu - 1917244

Challenges before introducing modern technology

Slide 8



NATIONAL HEALTH SERVICE (NHS)

Challenges before introducing modern technology

- ▶ Medical research, effective analysis and medication
 - ▶ Life expectancy was short
 - ▶ Global village
 - ▶ Online technology
 - ▶ Digital communication
 - ▶ Internet explorer
-
- Challenges that hinders the flow of work were all around
 - Distributions and Deliveries were ineffective due to lack of modern technology such as scanning, online ordering, and delivery.
 - Transparency, instant support and rapid intervention were not available.
 - The National Health Service was limited to modern facilities. Karantis360 alert devices program to send intelligence information via wireless mobile system was not invented. The IOT system allows faster insight to connect, transfer information and analyze data, comparing identity and conveying reports was not available, thereby putting unprotected people's lives at risk. (Helen Dempster. 2018).



NATIONAL HEALTH SERVICE (NHS)

Challenges before introducing modern technology

- ▶ The flow of work
- ▶ The NHS system before introducing modern technology
- ▶ Financial difficulties
- ▶ Lack of online devices and effective communication
- ▶ Lack of medical apparatus and devices

The security system before introducing Modern Technology was ineffective and costly. Links between the NHS were poor due to lack of proper appropriate links (Dave Chaffey, Tanya Hemphill. David Edmundson-Bird)(South Edition)(Pearson Pub.)

- Data The Protection art, formed in 1918 , which protects the information and technology of the public and government was not available. Security systems and services were not fast and strong. Most things were done manually, thus putting the patient and other people at risk
- Devices like digital entries, check-in badges, access controls, digital codes, census, check-in mobile manager for guest and patient were not available to control and access movements of people around clinics and CareHomes . Most things were done manually.Lack of hand devices and soft applications like the computer for quick access to files . APPs that provides information was not in use, digital maps , navigators were not available. The space of time used before introducing modern technology was far more than that of today

The lack of modern technology in the National Health Service limited the flow of work. The traditional way of distribution were slow , ineffective and costly. Electronic communication were not in use to enhance organization supply . The chain of supply

like medicine and medical resources were not available. The flow of resources takes time because of travel distance.

Achiaa boakye - 1916597

Slide 10 - Task 3 - Insight of modern technology introduced in the NHS



NATIONAL HEALTH SERVICE (NHS)

Insights of modern Technology introduced in NHS

- ▶ Computers system
- ▶ Mobile phones/ telephone
- ▶ Documents folders
- ▶ Social media
- ▶ Facebook
- ▶ text message,
- ▶ Twitter LinkedIn
- ▶ Cloud storage
- ▶ Storage devices such as hard Drives, floppy disks CD-ROMs

- Computer system: It safe to say that during this coronavirus pandemic, NHS has always operated under severe pressure, however for the benefits of new technology they been able to cope with significant workloads, increased on daily bases. According to NHS the last decade has been government challenge to digitalise public service, especially encouraging the use of modern technology within the NHS to improved health and social care sector for the population of UK.
- Mobile Phones/ Telephone: Introduction of phones has brought the gap between patient and health professional closer because it easily to change and book appointment any time is convenient to the person.
- document folders: Cloud computing has not only brought instant impact on hosting and transferring applications, system and data around the NHS has also boost for NHS digital the team tasked with digitalising legacy systems. Clouds can help transform the way services are turn with digital solutions, the NHS can offer quicker and more seamless services, in turn improving patients' outcomes (. David Linthicum¹, 2016)

- Facebook: NHS use facebook pages to connect with local population and also help in emergencies outbreak such as Covid-19
- LinkedIn : NHS organization uses linkedin to advertiser jobs opportunity

Achiaa boakye - 1916597

Slide 11 - Advantages of using modern technology in the NHS

NATIONAL HEALTH SERVICE (NHS)

Advantage of using Morden technology in NHS

- Helping people to manage their own health
- Digitising hospitals
- Supporting the NHS priorities urgent and emergency care
- Digital contribution to research
- Help patients surveys
- Easy access to hospital appointment
- Bring the gap between patients and healthcare professionals
- Improved health care sector

Helping people to manage their own health: Morden technology has help people to managed their own health by accessing GP record online, booking appointment and finding information about their condition and repeating prescription services online or telephone.

Digitising hospitals: According to (NHS England, 2015) survey of information technology adoption know as Digital Maturity Assessment, they been able to brought 80% percent of hospitals under one foundation trust due to efficiency of IT Vendor. This system helps to access patients record quickly in case of emergency.

Digital contribution to research: The skill to collect, aggregate and analyse the data generated by NHS is not only excellent rather delivering the aims and objectives of healthcare also underpins the NHS and wider sciences and research and strategies

Supporting the NHS priorities urgent and emergency care: NHS111 online which was designed in 2017 called online Triage that enable patients to access and enter their symptoms and received call back from health professional according to their person's needs.

Help to improved patients' services by introducing friends and family test in April 2013 and since April 2015, been available for all patients at any time they use many services across the NHS hospitals.

Achiaa boakye - 1916597

Slide 12 - Disadvantages of modern technology in the NHS



NATIONAL HEALTH SERVICE (NHS)

Disadvantaged of modern technology in NHS

- Downtime
 - Security and Privacy
-
- **Downtime:** Is often cited as one of the largest disadvantages of cloud computing, because systems are internet-based service that outage are extremely unfortunate circumstances that occur for any reason.
 - **Security and Privacy:** although cloud service provide always implement the best security standards and industry certifications storing data and vital files on external providers always open risks. Any data storage must address security and privacy seriously. (David Linthicum, (2016)

Dataflair team. (2019). *features of cloud computing*.

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Navid Sadri - 1917490

Task 4 - Slide 13 - Impacts of new technologies in the NHS



HEALTH NATIONAL SERVICE (NHS)

Positive impact of new technologies on the NHS

- ▶ Online consultations including NHS application
- ▶ New treatment state of the art technologies
- ▶ Digital medical records and data storage
- ▶ Online prescriptions and repeat prescriptions
- ▶ Health website, NHS choices
- ▶ Additional 111 call for non emergency concerns

Positive impacts of modern technologies on the NHS

Online consultation including NHS applications, according to England NHS (England, 2020), new online technology and innovation help people manage and improve their own health by providing at least 20 NHS applications based on evidence including online consultations.

The new treatment, state of the art technologies increase surgical accuracy, decrease human error and recent advances in medical diagnosis can save even more lives.

Digital medical records and data, With the growing number of people using NHS, it is very important having an effective system that can help the NHS to manage and track the number of people using their services including better access to patient's health records, according to CPI (The Electronic Health Records System In the UK - Centre for Public Impact (CPI), 2020),

UK government launched development of national programme for information technology NHS care record service in 2002.

Yet another breakthrough technology is NHS choices online website offering trusted advice on conditions as well as repeat prescriptions and appointments with more than 1.5 million visits a day in 2016 which is over 550 million visits a year (England, 2020).

Lastly enable 111 call to resolve non emergency health concerns without unnecessary visits to A&E or walking centres. The 111 call service has clearly reduced the pressure on frontline staffs as well reducing the waiting time for patients.

Navid Sadri - 1917490

Task 4 - Slide 14 - Impacts of new technologies in the NHS



HEALTH NATIONAL SERVICE (NHS)

Negative impacts of new technologies in the NHS

- ▶ The cost of new technologies are much more expensive than expected
- ▶ The digital technology makes it very difficult for elderly to access it online
- ▶ The new technologies and innovations need extra management and resources

Negative impacts of modern technologies on the NHS

The cost of new technology is much higher than expected and it is constantly on the rise as it requires extra managements, greater maintenance and replacements. It can also create aging population which is one of the main challenges facing the NHS now. The government needs to increase their budget for the NHS every year in order to keep up with the current services.

The new technology makes it very difficult for elderly to access it due to the lack of enough ability to see, read and also hearing difficulties. According to Lancaster (Why some older people are rejecting digital technologies, 2020), some elderly reject digital technologies because they fear of making mistakes and their concerns about social responsibility.

The new technologies and innovations need extra managements and recourses, therefore some of those technologies can be delayed or even completely scrapped in order to save money.

Shumana Begum - 1913892

Slide 15 - Lesson drawn to the case study

NATIONAL HEALTH SERVICE (NHS)

What is the difference between modern technology and traditional technology

- Modern technology is about relating to the present times.
- It is about having face to face communication and connection to the healthcare provider so that this give the access to the patients to the care they need.



In slide 15 I am going to focus on what is the difference between modern and traditional technology.

What i have learnt so far about modern technology is on my powerpoint presentation i have included that modern technology is based on the present times by having face to face communication and connecting to the healthcare provider so it gives the better care within the NHS.

Computing has brought sociological and psychological problems and impact on learning.

- Modern technology is about relating to the present times
 - Having face to face communication and connecting to the healthcare providers so the patients can have better treatment.
- I have searched this from the internet which is ageing.com

Shumana Begum - 1913892

Slide 16 - Lesson drawn to the case study

NATIONAL HEALTH SERVICE (NHS)

Traditional technology

- Traditional technology is a type of technology which is based on a tradition or culture which is generally transferred to one generation to another until it is modified to a new one.
- If you cut your hands, you could prevent this bacteria from getting infection.
- This is a solution that allows patients to solve a problem in the healthcare environment



Example of Traditional Media



In slide 16 I will be focusing on what is traditional technology and explain the technology used.

- Traditional technology is a type of technology which is based on a tradition or culture which is generally transferred to another until it is modified to a new one
- This is a solution that allows patients to solve a problem in the healthcare environment.
- If you cut your hands you could prevent this bacteria from getting into wounds or get an infection.

Shumana Begum - 1913892

Slide 17 - Lesson drawn to the case study

The NHS logo is displayed within a dark blue, curved banner. The text "NATIONAL HEALTH SERVICE (NHS)" is written in a white, serif, all-caps font. To the right of the banner, there is a small, solid magenta rectangle.

NATIONAL HEALTH SERVICE (NHS)

Modern technology is important for the organization because it helps the healthcare to provide better care for the patients.

- This is also good because they can provide new healthcare professions to get a new role to improve the service.
- One of the things which is useful for modern technology is education so everyone can use online recourses.
- For this you will need a range of equipment such as internet, books
- .New technology could change the way that NHS staff work, requiring health professionals to work in new ways or even in new roles.

Modern technology is beneficial to humans for several reasons.

Technology can help treat more sick people and help save lives and treat very harmful virus.

In slide 17 I have explained why modern technology is important for this organization. I have also gave some examples of why technology is important and what resources there is to provide this information.

- Modern technology is important for the organization because it helps the healthcare provide better care for the patients.
- For this you will need a range of equipment such as internet and books.

- Modern technology is important in order to communicate so it can be more easy with foreign countries.

Shumana Begum - 1913892

Slide 18 - Lesson drawn to the case study

NATIONAL HEALTH SERVICE (NHS)

The consequences of not using modern technology

- The consequences of not using modern technology is that this can have an effect on the way people work such as if there's no use of machines or the internet



https://miro.medium.com/max/2560/1*EfO1APNNDquUVJPjvQNeFQ.jpeg

In slide 18 i have talked about the consequences of not using modern technology

Modern technology also has consequences which are

- This can have an effect on the way people work such as if there's no use of machines on the internet
- Result of poor social skills

I got this information from the internet which has advantages and disadvantages of not using modern technology.

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